

Generic Emulator of Devices in a Device Communications Protocol

Abstract

5 The generic device emulator provides an operational emulation of the behavior of any desired device within a device connectivity or other communications protocol as specified in a description of the respective device. This facilitates development and implementation of devices within a device connectivity architecture based on the protocol, since the user has only to define the description of the device. The generic
10 device emulator provides default behaviors for a set of capabilities defined in the description for the device, which can be over-ridden or augmented by user-provided implementation of specific behavior for a capability. The generic device emulator also permits the user to inject defect behaviors, such as to introduce defects in the device's implementation of the protocol.